

### **Abstract of the Disclosure**

A simultaneous bidirectional port coupled to a bus combines a synchronization circuit and a clock circuit. The synchronization and clock circuit synchronizes the port with another simultaneous data port coupled to the same bus. A clock driver circuit is provided that is capable of being turned on and off. Prior to synchronization, the clock driver is off, and after synchronization, the clock driver is on. A clock receiver circuit includes a clock detection circuit to detect the presence of an input clock signal. When an integrated circuit is ready to communicate, the output clock driver is turned on and the clock detection circuit is monitored to determine when an input clock signal is received. When both the output clock driver is turned on, and an input clock signal is being received, the simultaneous bidirectional port is synchronized, and communication between integrated circuits can take place.

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